West Virginia Department of Environmental Protection
Division of Air Quality

Bob Wise
Governor

Stephanie R. Timmermeyer
Cabinet Secretary

Permit to Operate

Pursuant to

Title V

of the Clean Air Act

Issued to:

Inco Alloys International, Inc.

R30-01100007-2003

John A. Benedict
Director

Issued: September 29, 2003 • *Effective:* October 13, 2003
Expiration: September 29, 2008 • *Renewal:* March 29, 2008

Permit Number: **R30-01100007-2003**
Permittee: **Inco Alloys International, Inc.**
Mailing Address: **3200 Riverside Drive Huntington, WV 25705**

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Facility Location: Huntington, Cabell County, West Virginia
Telephone Number: 304-526-5100
Type of Business Entity: Corporation
Facility Description: Manufacturer of Nickel
SIC Code: 3356
UTM Coordinates: 379.20 km Easting • 4252.30 km Northing • Zone 17

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.

Table of Contents

1.0 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
		Melt Shop		
B-1-P	B-1-S	Main Boiler, 80 mmbtu/hr	1952	---
MS-1D	MS-1-S1& MS-1-S2	#4 Electric Arc Furnace	1966	Baghouses MS-1-C1 & MS-1-C2
MS-1B		#5 Electric Arc Furnace	1971	
MS-1A		Argon Oxygen Reactor	1971	
MS-2	MS-2-S	Powder Torch	1962	Baghouse MS-2-C
MS-3A-P	MS-3F	West Electrode Teeming Pits	<1970	---
MS-3B-P	MS-3F	East Electrode Teeming Pits	<1970	---
MS-4A-P	vent to indoor air	East Ladle Heater; 4 mmbtu/hr;	<1970	---
MS-4B-P	vent to indoor air	West Ladle Heater, 4 mmbtu/hr	<1970	---
MS-5A-P	MS-5F	East Bottom Pouring	1989	---
MS-5B-P	MS-5F	West Bottom Pouring	1989	---
MS-7-P	vent to indoor air	Argon Oxygen Degassing Vessel Heater, 5 mmbtu/hr	1971	---
MS-9-P	MS-9-S	Lime Storage Silo	1975	Baghouse MS-9-C
		Primary Mill (PM)		
PM-1 & 2P	PM-1 & 2S	#1 Primary Rolling Mill	1964	Blower PM-1 & 2C
PM-3-P	PM-3S	Plasma Cutting Torch	1966	Blower PM-3-C
PM-4-P	PM-4S	Plate Cleaning Machine	<1970	Baghouse PM-4-C
PM-5-P	PM-5S	Southeast Grinder	1980	Baghouse PM-5-C
PM-25-P	PM-6 & 25-S	Southcentral Grinder	1966	Baghouse PM-6 & 25-C
PM-6-P		Southwest Grinder	1974	
PM-7-P	PM-7-S	Northeast Grinder	1965	Baghouse PM-7-C
PM-26-P	PM-8 & 26-S	Northcentral Grinder	1980	Baghouse PM-8 & 26-C
PM-8-P		Northwest Grinder	1966	
PM-9A-P	PM-9A-F	Reheat Furnace F-11, 26.7 mmbtu/hr	1963	---
PM-9B-P	PM-9B-F	Reheat Furnace F-12, 26.7 mmbtu/hr	1963	---
PM-10A-P	PM-10A-S	Forge Furnace F2-21, 14 mmbtu/hr	1989	---
PM-10B-P	PM-10B-S	Forge Furnace F2-22, 14 mmbtu/hr	1989	---
PM-11-P	PM-11-S	Forge Furnace F3, 48 mmbtu/hr	<1970	---

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
PM-12A-P	PM-12A-S	Ingot Furnace F4-41, 14.4 mmbtu/hr	1992	---
PM-12B-P	PM-12B-S	Ingot Furnace F4-42, 14.4 mmbtu/hr	1992	---
PM-13-P	PM-13-S	Ingot Furnace F-5, 60 mmbtu/hr	<1970	---
PM-14-P	PM-14-S	Ingot Furnace F-6, 52.8 mmbtu/hr	<1970	---
PM-15-P	PM-15-S	Ingot Furnace F-7, 52.8 mmbtu/hr	<1970	---
PM-16-P	PM-16-S	Ingot Furnace F-8, 52.8 mmbtu/hr	<1970	---
PM-17A-P	PM-17A-S	Ingot Furnace F9-91, 14.3 mmbtu/hr	1992	---
PM-17B-P	PM-17B-S	Ingot Furnace F9-92, 14.3 mmbtu/hr	1992	---
PM-18-P	PM-18-S	#1 Carbottom Furnace, 50 mmbtu/hr	<1970	---
PM-19-P	PM-19-S	#3 Carbottom Furnace, 30 mmbtu/hr	<1970	---
PM-20-P	PM-20-S	Plate Building Plasma Torch Thermal Dynamics Corp. PAK 10XR	1989	Baghouse PM-20-C
PM-21-P	PM-21-F	East H.R. Strip Reheat, 16 mmbtt/hr	1989	---
PM-22-P	PM-22-F	West H.R. Strip Reheat, 16 mmbtu/hr	1989	---
PM-23-P	PM-23-F	Plate Anneal Furnace Salem Furnace Co., 16 mmbtu/hr	1995	---
PM-24-P	PM-24-F	Tip-up Furnace, 16 mmbtu/hr	1989	---
PM-27-P	PM-27-F	Swing Grinder	1983	Baghouse PM-27-C
PM-28-P	PM-28-S	Forge Furnace F-101, 15 mmbtu/hr	1998	---
PM-29-P	PM-29-S	Forge Furnace F-102, 15 mmbtu/hr	1998	---
Miscellan.	vent to indoor air	Forge Press, Hot reversing Strip Mill, Coiler, Hand Held Plasma Torches, Savage Saw, Savage Saw, Spot Grinder	varies	---
		Strip Mill		
SM-1-P	SM-1-S	CAP Line Pickling	1967	Mist Elim. SM-1-C
SM-2-P	SM-2-S	Cap Shot Blaster	1967	Wet Scrub SM-2-C
SM-3-P	SM-3-S	MKW Mill	1967	Mist Elim. SM3-C
SM-4-P	SM-4-S	United Mill	1967	Mist Elim. SM-4-C
SM-5-P	SM-5-S1,2,3,4	CAP Salt Bath, 7 mmbtu/hr	1989	---
SM-6-P	SM-6-S	CAP Preheat Furnace, 49.5 mmbtu/hr	1967	SM-6-C
SM-7-P	SM-7-S	CAP Equalize Furnace, 49.5 mmbtu/hr	1967	SM-7-C
SM-10-P	SM-10-S	#2 CBU Grinder	<1970	Baghouse SM-10-C
SM-11-P	SM-11-S	Chevron Dryer, 1 mmbtu/hr	1968	---

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
SM-12-P	SM-12-F	Leveling Spot Weld Arc Weld	1967	Baghouse SM-12-C
SM-15-P	SM-15-S	CAP Kolene Rinse Tank	1966	Mist Elim SM-15-C
SM-16-P	vent to indoor air	Nitric Acid Storage (Bulk)	1965	---
Miscellan.	vent to indoor air	#1 CBU, Hill Acme Grinder (wet process), #50 Slitter, #2 Slitter, Slit and Cut Line	<1970	---
		Chipping Shop		
CS-1-P	CS-1-S	Schluter Grinder	1964	Baghouse CS-1-C
CS-2-P	CS-2-S	Norton Grinder	1958	Baghouse CS-2-C
CS-3-P	CS-3-S	#1 Centro-M Grinder	1966	Baghouse CS-3-C
CS-4-P	CS-4-S	#2 Centro-M Grinder	1967	Baghouse CS-4-C
		Bar & Wire Mill		
BW-1A-P	BW-1A-S	23" Mill Furnace #1, 40 mmbtu/hr	1971	---
BW-1B-P	BW-1B-S	23" Mill Furnace #2, 40 mmbtu/hr	1971	---
BW-2-P	BW-2-S	Walking Beam Furnace, 30 mmbtu/hr	1971	---
BW-3-P	BW-3-S, BW-12-S	Wire Looping Section #1	1970	Baghouses BW-3-C BW-12-C
BW-12-P		Wire Looping Section #2	1971	
BW-4A-P	BW-4A-F	Quench Tank	1971	---
BW-4B-P	BW-4B-F	Quench Tank	1971	Fan BW-4B-C
BW-7-P	BW-7-F	23" Mill	1971	---
BW-8-P	BW-8-F	22" Mill	1971	---
BW-9-P	BW-9-F	Cross Country Mills	1971	---
BW-10-P	BW-10-F	Scholle Saw	1971	Baghouse BW-10-C
BW-11-P	BW-11-F	Abrasive Cut-off Machine	1971	Baghouse BW-11-C
Miscellan.	vent to indoor air	Looping Section #1 & #2 Wire Coilers, #1 Flying Shears, #3 Flying Shears, #4 Flying Shears, Wire Coilers from #4 Flying Shears, Disc Shears, Wire Coilers from Disc Shears, Cold Shears	1971	---
		Vacuum Induction Melting		
N/A	N/A	Vacuum Induction Melting Furnace	1983	---
VM-1-P	VM-1-F	Stress Relief Furnace, 7 mmbtu/hr	1984	---
VM-2-P	VM-2-S	V.I.M. Mold Preheat, 6 mmbtu/hr	1984	---
B-4-P	B-4-S	V.I.M. Boiler, 26 mmbtu/hr	1984	---

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
VM-4-P	VM-4-F	Furnace Shell Preheat, 1.8 mmbtu/hr	1984	---
VM-5-P	VM-5-S	Tundish Drying Oven, 1.5 mmbtu/hr	1998	---
VM-6-P	VM-6-F	Stool (base) Drying		---
		Extrusion		
EX-5-P	EX-5A-V, EX-5B-V, EX-5-S	Stub Welder	1969	Baghouse EX-5-C
Miscellan.	vent to indoor air	Blaw-Knox Medart Straightener, Electric Spot Grind, Cold Saws (2), Abrasive Saws (4), Bar Peeler	<1970	---
		Machine & Blacksmith Shops		
MA-3-P	MA-3-S	Pedestal Grinder	<1970	Cyclone MA-3-C
MA-4-P	MA--4-F	Salem Tip-up Furnace Salem Furnace Co., 13.8 mmbtu/hr	1993	---
Miscellan.	vent to indoor air	Various Machining Operations (milling, 10 machines)		---
Miscellan.	vent to indoor air	Abrasive Saws		---
BS-1-P	vent to indoor air	Furnace #7		---
BS-2-P	vent to indoor air	Furnace #17		---
		Remelting		
N/A	N/A	#2 Vacuum Arc Reduction Furnace	1974	---
N/A	N/A	#3 Vacuum Arc Reduction Furnace	1981	---
N/A	N/A	#4 Vacuum Arc Reduction Furnace	1990	---
N/A	N/A	#5 Vacuum Arc Reduction Furnace	1998	---
N/A	N/A	#6 Vacuum Arc Reduction Furnace	1998	---
N/A	N/A	#7 Vacuum Arc Reduction Furnace	2002	---
VA-6-P	VA-6-F	Crucible Clean		Cyclone VA-6C
VA-7-P	VA-7-F	Electrode Drying Area		---
		Cold Draw		
CD-1-P, CD-2-P	CD-1-S, CD-2-S	West Pickle Tanks 12-15	1958	---
CD-3-P, CD-4-P	CD-3-S, CD-4-S	West Pickle Tanks 9-11	1958	Mist Eliminator CD-3C
CD-5-P, CD-6-P	CD-5-S, CD-6-S	West Pickle Tank 8 & 9 (1/2 of tank 9 vents to CD-8S, CD-9S)	1958	---
CD-7-P, CD-8-P	CD-7-S, CD-8-S	West Pickle Tank #7	1958	---

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
CD-9-P, CD-10-P	CD-9-S/CD-10-S	West Pickle Tank 5	1958	---
CD-11-P, CD-12-P	CD-11-S/CD-12-S	West Pickle Tank 3	1958	---
CD-13-P, CD-14-P	CD-13-S/CD-14-S	East Pickle House; Tanks 51, 52, 53, 55, 56, 57, 58, and 59	1960	---
CD-15-P	vent to indoor air	Tank #59 Dryer		---
CD-16-P	vent to indoor air	Tube Bender Saw	1959	Filter CD-16C
CD-17-P	vent to indoor air	East Cutters (3 saws)	1960	Filter CD-17C
CD-18-P	vent to indoor air	Drying Tank #2, 1 mmbtu/hr	<1970	---
CD-19-P	vent to indoor air	Drying Tank #3, 2 mmbtu/hr	<1970	---
CD-20-P	vent to indoor air	#2 Cont. Annealing Furnace, 9 mmbtu/hr	<1970	---
CD-21-P	vent to indoor air	#3 Cont. Annealing Furnace, 9.5 mmbtu/hr	<1970	---
CD-22-P	vent to indoor air	#4 Cont. Annealing Furnace, 6.1 mmbtu/hr	<1970	---
CD-23-P	vent to indoor air	West Cutters (3 saws)	1966	Filter CD-23C
CD-24-P	vent to indoor air	#10A Furnace, 3 mmbtu/hr	<1970	---
CD-25-P	vent to indoor air	Squeeze Pointer Furnace, 0.5 mmbtu/hr	<1970	---
CD-26-P	vent to indoor air	McKay Tube Red. Saw	1968	Filter CD-26C
CD-28-P	CD-28S	Wean Tube Red. Saw	1981	---
CD-31-P	vent to indoor air	Grind Building Saw	1950	Filter CD-31C
CD-32-P	vent to indoor air	West Pickle Salt Bath, 7.2 mmbtu/hr	1998	---
CD-33-P	vent to indoor air	Selas Batch Anneal Furnace, 1 mmbtu/hr	<1970	---
CD-34-P	vent to indoor air	Sulfuric Acid Storage Tank 2211311	<1970	---
CD-35-P	vent to indoor air	Nitric Acid Storage Tank 2211129	<1970	---
CD-36-P	CD-36-S	Hard Chrome Plating; two chrome plating tanks, one etch tank, and one strip tank	1950	Scrubber
CD-37-P	vent to indoor air	Bull Block Wire Dryer		---

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Control Device
		Metal Reclaim		
MR-25-P	MR-25-F	Receiving Station Hopper	1978	---
MR-26-P	MR-26-F	Vibrating Grizzly	1978	---
MR-27-P	MR-27-F	Jaw Crusher	1978	---
MR-28 -P	MR-28-F	Receiving Bin	1978	---
MR-29-P	MR-29-F	Vibrating Feeder	1978	---
Miscellan.	vent to indoor air	Rod Mill, Tailings Pond, Tailings Storage	1978	---
		Carpenter Shop and Service Center		
CA-1-P	CA-1-S	Woodcutting Operations	1958	---
CA-2-P	CA-2-S	Woodcutting Operations	1958	---
SC-1-P	SC-1-S	Wood Saws	<1970	---
		Acid Reclaim		
N/A	N/A	Soda Ash Silo	1995	Baghouse
N/A	N/A	Soda Ash Receiver	1995	Baghouse
N/A	N/A	Soda Ash Mixing Tank	<1970	---
N/A	N/A	Mix Tank	<1970	---

Storage Tanks

Equipment No.	Location	Tank Contents	Design Capacity	Year Installed
22-11438	Strip Mill Dept. United Mill	Soluble Oil	25000 gallons	1988
51-1319	Strip Mill Dept. SWT Lamella	Used Oil	800 gallons	1979
51-1323	Strip Mill Dept. SWT Lamella	Soluble Oil	1580 gallons	1988
22-11417	Strip Mill Dept. Cracker	Used Oil	2642 gallons	1988
22-11455	Strip Mill Dept. Column B29	Hydraulic Oil	570 gallons	1990
22-11454	Strip Mill Dept. Column B29	Hydraulic Oil	570 gallons	1990
22-11453	Strip Mill Dept. Column B29	Hydraulic Oil	570 gallons	1990
22-11452	Strip Mill Dept. Column B29	Hydraulic Oil	570 gallons	1990
22-11451	Strip Mill Dept. Column B29	Hydraulic Oil	570 gallons	1990
22-11439	Strip Mill Dept. Sol. Water Tmt South Tk.	Soluble Oil	58750 gallons	1988
22-11417	Strip Mill Dept. Sol. Water Tmt North Tk.	Soluble Oil	25000 gallons	1988
22-11297	Strip Mill Dept. Sol. Water Tmt	Oily Waste Conc.	8000 gallons	1966
22-11B35	Strip Mill Dept. Sol. Water Tmt North Tk.	Used Oil	30000 gallons	1989
22-11B36	Strip Mill Dept. Sol. Water Tmt South Tk.	Used Oil	30000 gallons	1989
None	Utilities Dept. Wastewater Tmt	Coag. Polymer	572 gallons	1988
22-11459	Melting Dept. Between Column C24 and C25	Cutting Oil	1500 gallons	1991
22-11188	Auto Maintenance	Diesel Fuel	8250 gallons	1941
None	Auto Maintenance	H32 Oil	330 gallons	Unknown
None	Auto Maintenance	15W-40 Mot. Oil	330 gallons	Unknown
None	Auto Maintenance	10W-30 Mot. Oil	330 gallons	Unknown
None	Auto Maintenance	XD3-10 Mot. Oil	330 gallons	Unknown
None	Auto Maintenance	Used Oil	560 gallons	Unknown
22-11475	Auto Maintenance	Gasoline	3000 gallons	1994
22-11475	Auto Maintenance	Isopropyl Alcohol	3000 gallons	1994
22-11461	Technology Proc. Center	Kerosene	2000 gallons	1992
22-11148	Bar & Wire Dept. Northwest Corner	Isopropyl Alcohol	450 gallons	1976
None	Primary Mill Dept. Plate Building	Used Oil	500 gallons	Unknown
22-11313	Primary Mill Dept Billet Yard	Used Oil	500 gallons	1970
22-11314	Primary Mill Dept Billet Yard	Used Oil	500 gallons	1971
22-11315	Primary Mill Dept Billet Yard	Used Oil	1000 gallons	1968

Storage Tanks

22-11457	Primary Mill Dept Billet Yard	Used Oil	500 gallons	1990
None	Primary Mill Dept West End Mill Bldg	Diesel Fuel	2000 gallons	Unknown
22-11415	Primary Mill Dept West of Col. D-39	Hydraulic Oil	600 gallons	1987
22-11375	Cold Draw Dept. Wean Tube Reducer	Used Chlor. Oil	5800 gallons	1980
22-11368	Cold Draw Dept. Wean Tube Reducer	New Chlor. Oil	5500 gallons	1980
22-11466	Cold Draw Dept. McKay Tube Reducer	Used Chlor. Oil	10000 gallons	1991
22-11235	Cold Draw Dept. Column D1W	Used Oil	1000 gallons	1961
22-11303	Cold Draw Dept. Column D18W	Drawing Oil	2985 gallons	1967
22-11341	Cold Draw Dept. Column D16W	Fatty Acid	4185 gallons	1974
22-11221	Cold Draw Dept. East Pickle House	Emulsion Cleaner & Water Solution	13596 gallons	1960
None	Cold Draw Dept. Wean Tube Reducer	Emulsion Cleaner & Water Solution	2000 gallons	1998
22-11464	Cold Draw Dept. Alkaline/Emulsion	Emulsion Cleaner & Water Solution	500 gallons	1991

2.0. General Conditions

2.1. Definitions

2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.

2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.

2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

2.2. Acronyms

CAAA	Clean Air Act Amendments	**NSPS**	New Source Performance Standards
CBI	Confidential Business Information	**PM**	Particulate Matter
CEM	Continuous Emission Monitor	**PM_{10}**	Particulate Matter less than 10μm in diameter
CES	Certified Emission Statement	**pph**	Pounds per Hour
C.F.R. *or* CFR	Code of Federal Regulations	**ppm**	Parts per Million
CO	Carbon Monoxide	**PSD**	Prevention of Significant Deterioration
C.S.R. *or* CSR	Codes of State Rules	**psi**	Pounds per Square Inch
DAQ	Division of Air Quality	**SIC**	Standard Industrial Classification
DEP	Department of Environmental Protection	**SIP**	State Implementation Plan
FOIA	Freedom of Information Act	**SO_2**	Sulfur Dioxide
HAP	Hazardous Air Pollutant	**TAP**	Toxic Air Pollutant
HON	Hazardous Organic NESHAP	**TPY**	Tons per Year
HP	Horsepower	**TRS**	Total Reduced Sulfur
lbs/hr	Pounds per Hour	**TSP**	Total Suspended Particulate
LDAR	Leak Detection and Repair	**USEPA**	United States Environmental Protection Agency
M	Thousand	**UTM**	Universal Transverse Mercator
MACT	Maximum Achievable Control Technology	**VEE**	Visual Emissions Evaluation
MM	Million	**VOC**	Volatile Organic Compounds
MMBtu/hr *or* mmbtu/hr	Million British Thermal Units per Hour		
MMCF/hr *or* mmcf/hr	Million Cubic Feet Burned per Hour		
NA	Not Applicable		
NAAQS	National Ambient Air Quality Standards		
NESHAPS	National Emissions Standards for Hazardous Air Pollutants		
NO_x	Nitrogen Oxides		

2.3. Permit Expiration and Renewal

2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.
[45CSR§30-5.1.b.]

2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.
[45CSR§30-4.1.a.3.]

2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.
[45CSR§30-6.3.b.]

2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.
[45CSR§30-6.3.c.]

2.4. Permit Actions

2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[45CSR§30-5.1.f.3.]

2.5. Reopening for Cause

2.5.1. This permit shall be reopened and revised under any of the following circumstances:

a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§§30-6.6.a.1.A. or B.

b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.

c. The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

[45CSR§30-6.6.a.]

2.6. Administrative Permit Amendments

2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.
[45CSR§30-6.4.]

2.7. Minor Permit Modifications

2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.
[45CSR§30-6.5.a.]

2.8. Significant Permit Modification

2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.
[45CSR§30-6.5.b.]

2.9. Emissions Trading

2.9.1. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit and that are in accordance with all applicable requirements.
[45CSR§30-5.1.h.]

2.10. Off-Permit Changes

2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:

a. The change must meet all applicable requirements and may not violate any existing permit term or condition.

b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.

c. The change shall not qualify for the permit shield.

d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.

e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.

f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

[45CSR§30-5.9]

2.11. Operational Flexibility

2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean

Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.
[45CSR§30-5.8]

2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.
[45CSR§30-5.8.a.]

2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:

a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or

b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.
[45CSR§30-5.8.c.]

2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
[45CSR§30-2.39]

2.12. Reasonably Anticipated Operating Scenarios

2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.

a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.

b. The permit shield shall extend to all terms and conditions under each such operating scenario; and

c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.
[45CSR§30-5.1.i.]

2.13. Duty to Comply

2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or

USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
[45CSR§30-5.1.f.1.]

2.14. Inspection and Entry

2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution Control equipment), practices, or operations regulated or required under the permit;

d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.
[45CSR§30-5.3.b.]

2.15. Schedule of Compliance

2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:

a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.
[45CSR§30-5.3.d.]

2.16. Need to Halt or Reduce Activity not a Defense

2.16.1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.
[45CSR§30-5.1.f.2.]

2.17. Emergency

2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include

noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
[45CSR§30-5.7.a.]

2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-8.7.c. are met.
[45CSR§30-5.7.b.]

2.17.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The permitted facility was at the time being properly operated;

c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

[45CSR§30-5.7.c.]

2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
[45CSR§30-5.7.d.]

2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.
[45CSR§30-5.7.e.]

2.18. Federally-Enforceable Requirements

2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.
[45CSR§30-5.2.a.]

2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

2.19. Duty to Provide Information

2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.
[45CSR§30-5.1.f.5.]

2.20. Duty to Supplement and Correct Information

2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.
[45CSR§30-4.2.]

2.21. Permit Shield

2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.
[45CSR§30-5.6.a.]

2.21.2. Nothing in this permit shall alter or affect the following:

a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or

b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.

c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

[45CSR§30-5.6.c.]

2.22. Credible Evidence

2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.
[45CSR§30-5.3.e.3.B. and 45CSR38]

2.23. Severability

2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect.
[45CSR§30-5.1.e.]

2.24. Property Rights

2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege.
[45CSR§30-5.1.f.4]

2.25. Acid Deposition Control

2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.

a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.

b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.

c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

[45CSR§30-5.1.d.]

2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.
[45CSR§30-5.1.a.2.]

3.0. Facility-Wide Requirements

3.1. Limitations and Standards

3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.
[45CSR§6-3.1.]

3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]

3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). A copy of this notice is required to be sent to the USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health.
[40 C.F.R. 61]

3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1 State-Enforceable only.]

3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.
[45CSR§13-10.5 State-Enforceable only.]

3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.
[45CSR§11-5.2]

3.1.7. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality.
[W.Va. Code § 22-5-4(a)(14)]

3.1.8. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.
[40 C.F.R. 82, Subpart F]

3.1.9. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.
[40 C.F.R. 68]

3.1.10. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7 of 45CSR7.
[45CSR§7-3.1. and 45CSR13 - R13-1646, R13-1767, and R13-2163]

3.1.11. No person shall cause, suffer, allow, or permit emissions of smoke and/or particulate matter into the open air from any storage structure associated with any manufacturing process.
[45CSR§7-3.7. and 45CSR13 - R13-2163]

3.1.12. No person shall cause, suffer, allow, or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A found in 45CSR7.
[45CSR§7-4.1. and 45CSR13 - R13-2163]

3.1.13. No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.
[45CSR§7-5.1. and 45CSR13 - R13-2163]

3.1.14. The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.
[45CSR§7-5.2. and 45CSR13 - R13-2163]

3.1.15. Due to unavoidable malfunction of equipment, emissions exceeding those provided for in this rule may be permitted by the Director for periods not to exceed ten (10) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director.
[45CSR§7-10. and 45CSR13 - R13-2163]

3.1.16. The permittee shall burn natural gas meeting the FERC requirements exclusively for all furnaces.
[45CSR§30-12.7.]

3.2. Monitoring Requirements

3.2.1. Visual emission checks of each emission point subject to an opacity limit shall be conducted once per week during periods of normal facility operation using 40 C.F.R. 60 Appendix A, Method 22. If during these checks, or at any other time, visible emissions are observed at any emission point, compliance shall be determined by

conducting tests in accordance with the methodology set forth in 45CSR7A "Compliance Test Procedures for 7A." If no visible emissions are observed after two weeks, visible emission checks shall be conducted monthly. If any visible emissions are observed during the monthly emission checks, visible emission checks shall return to being performed weekly. If no visible emissions are observed after four months, visible emission checks shall be conducted each calendar quarter. If any visible emissions are observed during the quarterly emission checks, visible emission checks shall return to being performed each calendar month. Records shall be maintained on site for a period of no less than five (5) years and shall include all data required by 40 C.F.R. 60 Appendix A, Method 22, or 45CSR7A, whichever is appropriate. These records shall include, at a minimum, the date and time of each visible emission check, the visible emissions survey results and, if appropriate, all corrective actions taken.
[45CSR§30-5.1.c.]

3.3. Testing Requirements

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit will be revised in accordance with 45CSR§30-6.4. or 45CSR§30-6.5 as applicable.

b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit will be revised in accordance with 45CSR§30-6.4. or 45CSR§30-6.5 as applicable.

c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15), 45CSR§10-8.1.a., and 45CSR13 - R13-1646]

3.4. Recordkeeping Requirements

3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:

a. The date, place as defined in this permit and time of sampling or measurements;

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of the analyses; and

f. The operating conditions existing at the time of sampling or measurement.
[45CSR§30-5.1.c.2.A.]

3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.
[45CSR§30-5.1.c.2.B.]

3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received. Such record shall contain an assessment of the validity of the complaints as well as any corrective actions taken.
[45CSR§30-5.1.c. State-Enforceable only.]

3.4.4. **Fugitives.** The permittee shall monitor all fugitive PM emission sources as required by Subsection 3.1.13. to ensure that a system to minimize fugitive emissions has been installed or implemented. Records shall be maintained on site for a period of no less than five (5) years stating the types of fugitive PM capture and/or suppression systems used, the times these systems were inoperable, and the corrective actions taken to repair these systems.
[45CSR§30-5.1.c.]

3.4.5. **Fugitives.** The permittee shall maintain records indicating the use of any dust suppressants or any other suitable dust control measures as required by Subsection 3.1.14. applied at the facility. These records shall be maintained on site for a period of no less than five (5) years.
[45CSR§30-5.1.c.]

3.5. Reporting Requirements

3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
[45CSR§30-4.4. *and* 5.1.c.3.D.]

3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
[45CSR§30-5.1.c.3.E.]

3.5.3. All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when

delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

Director
WVDEP
Division of Air Quality
7012 MacCorkle Avenue, SE
Charleston, WV 25304-2943

Phone: 304/926-3727
FAX: 304/926-3739

If to the US EPA:

Associate Director
Office of Enforcement and Permits Review
(3AP12)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.
[45CSR§30-8.]

3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification.
[45CSR§30-5.3.e.]

3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4.
[45CSR§30-5.1.c.3.A.]

3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.

3.5.8. **Deviations.**

a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:

1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.

2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions

or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.

3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.

4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.
[45CSR§30-5.1.c.3.C.]

b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.
[45CSR§30-5.1.c.3.B.]

c. Every report submitted under this subsection shall be certified by a responsible official.
[45CSR§30.5.1.c.3.D.]

3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.
[45CSR§30-4.3.h.1.B.]

3.6. Permit Shield

3.6.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.

3.6.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.

a. 40CFR Part 60 subpart Dc - The Main Boiler and V.I.M. boiler were constructed before June 9, 1989 and have not been modified after that date. The CAP Salt Bath and West Pickle Salt Bath have capacities less than 10 mmBtu/hr.

b. 40CFR Part 60 subpart K - All tanks at the Inco Alloys facility were constructed after 1978.

c. 40 CFR 60 Subpart Ka - Gasoline Tank, Diesel Tanks, Kerosene Tank and Isopropyl Tank are not subject to this rule because their capacity is less than the 40,000 gallon threshold trigger for this rule. Some of the oil product storage tanks exceed the 40,000 gallon trigger but are not subject to 60.112a (a) because the vapor pressures of the oil products are less than the 10.3 Kilopascal trigger or are not subject to 60.115a(A) (Monitoring of Operations) because the vapor pressures of the oil products are less than the 6.9 Kilopascal trigger in accordance with 60.115a(d)(1).

d. 40 CFR 60 Subpart Kb - Other than the requirements of paragraphs (a) and (b) of 60.116b, the diesel, kerosene, isopropanol and gasoline tanks are not subject to the provisions of this subpart because their capacity is less than 19,813 gallons. The oil product storage tanks are not subject to the provision of this subpart because the products contained within the tank have a vapor pressure that is lower than 3.5 Kilopascals.

e. 40 CFR Part 60 Subpart AAa - The #4 Electric Arc Furnace, #5 Electric Arc Furnace, and AOD vessel were installed in 1966, 1971, and 1971 respectively, before the applicability date of this regulation (October 21, 1974). Therefore, this regulation is not applicable to the facility.

f. 40 CFR Part 63 - Subpart CCC - HCl Pickling NESHAPS - This standard is not applicable to facilities that pickle specialty steel. Specialty Steel means a category of steel that includes silicon electrical, alloy and stainless steels.

4.0. Indirect Fired Fuel Burning Units Requirements [Main Boiler (B-1-P), V.I.M. Boiler (B-4-P), CAP Salt Bath (SM-5-P), and West Pickle Salt Bath (CD-32-P)]

4.1. Limitations and Standards

4.1.1. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is darker in shade or appearance than ten (10) percent opacity based on a six minute block average.
[45CSR§2-3.1. (B-1-P, B-4-P, CD-32-P, & SM-5-P)]

4.1.2. No person shall cause, suffer, allow or permit the discharge of particulate matter into the open air from all fuel burning units located at one plant, measured in terms of pounds per hour in excess of the product of 0.09 and the total design heat input in million B.T.U.'s per hour.
B-1-P 7.2 pounds per hour
B-4-P 2.34 pounds per hour
[45CSR§2-4.1.b. (B-1-P & B-4-P)]

4.1.3. Subject to the provisions of this rule, allowable emission rates for individual stacks shall be determined by the owner and/or operator and registered with the Director at the request of, and on forms provided by, the Director. Such rates shall be subject to review and approval by the Director.
[45CSR§2-4.2. (B-1-P & B-4-P)]

4.1.4. The addition of sulfur oxides to a combustion unit exit gas stream for the purpose of improving emissions control equipment efficiency shall be reviewed by the Director. No person shall cause, suffer, allow or permit the addition of sulfur oxides as described above unless written approval for such addition is provided by the Director.
[45CSR§2-4.4. (B-4-P)]

4.1.5. At all times, including periods of start-ups, shutdowns and malfunctions, owners and operators shall, to the extent practicable, maintain and operate any fuel burning unit(s) including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, visible emission observations, review of operating and maintenance procedures and inspection of the source.
[45CSR§2-9.2. (B-1-P & B-4-P)]

4.1.6. No person shall cause, suffer, allow or permit the discharge of sulfur dioxide into the open air from all stacks located at one plant, measured in terms of pounds per hour, in excess of the product of 3.2 and the total design heat inputs for such units discharging through those stacks in million BTU's per hour.
B-1-P 256.0 pounds per hour
B-4-P 83.2 pounds per hour
[45CSR§10-3.3.f. (B-1-P & B-4-P)]

4.2. Monitoring Requirements

4.2.1. The Main boiler, V.I.M. boiler, CAP Salt Bath and West Pickle Salt Bath shall be operated and maintained in accordance with the manufacturer's recommendations and specifications and in a manner consistent with good operating practices and shall only burn natural gas as stated in Section 3.1.16. of this permit.
[45CSR§30-5.1.c.]

4.2.2. Compliance with the allowable sulfur dioxide emission limitations from fuel burning units shall be based on a continuous twenty-four (24) hour averaging time. The permittee shall not allow emissions to exceed the weight emissions standards for sulfur dioxide as set forth in this rule, except during one (1) continuous twenty-four (24) hour period in each calendar month and during this one (1) continuous twenty-four hour period said

owner and/or operator shall not allow emissions to exceed such weight emission standards by more than ten percent (10%) without causing a violation of this rule. A continuous twenty-four (24) hour period is defined as one (1) calendar day.
[45CSR§10-3.8.]

4.3. Recordkeeping Requirements

4.3.1. The owner or operator of a fuel burning unit(s) shall maintain records of the operating schedule and the quantity and quality of fuel consumed in each fuel burning unit in a manner to be established by the Director. Such records are to be maintained on-site and made available to the Director or his duly authorized representative upon request.
[45CSR§2-8.3.c. (B-1-P, B-4-P)]

4.4. Reporting Requirements

4.4.1. The permittee shall submit a periodic exception report to the Director, in a manner and at a frequency to be established by the Director. Such exception report shall provide details of all excursions outside the range of measured emissions or monitored parameters established in an approved monitoring plan, and shall include, but not be limited to, the time of the excursion, the magnitude of the excursion, the duration of the excursion, the cause of the excursion and the corrective action taken.
[45CSR§2-8.3.b. (B-1-P & B-4-P)]

4.4.2. The permittee shall report to the Director any malfunction of such unit or its air pollution control equipment which results in any excess particulate matter emission rate or excess opacity as provided in one of the following:

a. Excess opacity periods meeting the following conditions may be reported on a quarterly basis unless otherwise required by the Director:

1. The excess opacity period does not exceed thirty (30) minutes within any 24-hour period; and

2. Excess opacity does not exceed 40%.

b. The permittee shall report to the Director any malfunction resulting in excess particulate matter or excess opacity, not meeting the criteria set forth in Section 4.4.2.a, by telephone, telefax, or e-mail by the end of the next business day after becoming aware of such condition. The owner or operator shall file a certified written report concerning the malfunction with the Director within thirty (30) days providing the following information:

1. A detailed explanation of the factors involved or causes of the malfunction;

2. The date and time of duration (with starting and ending times) of the period of excess emissions;

3. An estimate of the mass of excess emissions discharged during the malfunction period;

4. The maximum opacity measured or observed during the malfunction;

5. Immediate remedial actions taken at the time of the malfunction to correct or mitigate the effects of the malfunction; and

6. A detailed explanation of the corrective measures or program that will be implemented to prevent a recurrence of the malfunction and a schedule for such implementation.

[45CSR§2-9.3. (B-1-P & B-4-P)]

4.4.3. The operators of fuel burning units shall submit data on operating schedules and the quality of fuel used in such units. Such data shall be reported in the manner the Director may specify, and will include, but not necessarily be limited to, information such as the number of start-ups, the quantity of fuel burned, and the ash, sulfur, moisture, volatile matter, and BTU content.
[45CSR§2-7.03. (B-1-P & B-4-P)]

4.4.4. The operators of fuel burning units shall submit data on the fuel used in such units. Such data shall be reported in the manner the Director may specify. However, reports on such data shall not exceed one (1) per month. Such reports must be filed within fifteen (15) days of the end of the established reporting period and will include, but not necessarily be limited to, information such as the quantity of fuel burned and the sulfur, moisture, volatile matter, and BTU content.
[45CSR§10-6.05. (B-1-P & B-4-P)]

5.0. Direct Fired Furnaces Requirements

East Ladle Heater (MS-4A-P), West Ladle Heater (MS-4B-P), Argon Oxygen Degassing Vessel Heater (MS-7-P)

Reheat Furnace F-11 (PM-9A-P), Reheat Furnace F-12 (PM-9B-P), Forge Furnace F2-21 (PM-10A-P), Forge Furnace F2-22 (PM-10B-P), Forge Furnace F3 (PM-11-P), Ingot Furnace F4-41 (PM-12A-P), Ingot Furnace F4-42 (PM-12B-P), Ingot Furnace F-5 (PM-13-P), Ingot Furnace F-6 (PM-14-P), Ingot Furnace F-7 (PM-15-P), Ingot Furnace F-8 (PM-16-P), Ingot Furnace F9-91 (PM-17A-P), Ingot Furnace F9-92 (PM-17B-P), #1 Carbottom Furnace (PM-18-P), #3 Carbottom Furnace (PM-19-P), East H.R. Strip Reheat Furnace (PM-21-P), West H.R. Strip Reheat Furnaces (PM-22-P), Plate Anneal Furnace (PM-23-P),Tip-up Furnace (PM-24-P), Forge Furnace F-101 (PM-28-P), Forge Furnace F-102 (PM-29-P)

CAP Preheat Furnace (SM-6-P), CAP Equalize Furnace (SM-7-P), Chevron Dryer (SM-11-P)

23" Mill Furnace #1 (BW-1A-P), 23" Mill Furnace #2 (BW-1B-P), Walking Beam Furnace (BW-2-P)

Stress Relief Furnace (VM-1-P), V.I.M. Mold Preheat (VM-2-P), Furnace Shell Preheat (VM-4-P), Tundish Drying Oven (VM-5-P), Stool (base) Drying (VM-6-P), Electrode Drying Area (VA-7-P)

Tip-up Furnace (MA-4-P), Blacksmith Shop Furnace #7 (BS-1-P), Blacksmith Shop Furnace #17 (BS-2-P)

Tank #59 Dryer (CD-15-P), Drying Tank #2 (CD-18-P), Drying Tank #3 (CD-19-P), #2 Cont. Annealing Furnace (CD-20-P), #3 Cont. Annealing Furnace (CD-21-P), #4 Cont. Annealing Furnace (CD-22-P), #10A Furnace (CD-24-P), Squeeze Pointer Furnace (CD-25-P), Selas Batch Anneal Furnace (CD-33-P), and Bull Block Wire Dryer (CD-37-P)

5.1. Limitations and Standards

5.1.1. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7. of 45CSR7.
[45CSR§7-3.1 and 45CSR13 - R13-2163]

5.1.2. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A found at the end of 45CSR7.
[45CSR§7-4.1. and 45CSR13 - R13-2163]

5.1.3. No person shall cause, suffer, allow or permit the emission into the open air from any source operation an in-stack sulfur dioxide concentration exceeding 2,000 parts per million by volume from existing source operations, except as provided in subdivisions 4.1.a through 4.1.e. of 45CSR10.
[45CSR§10-4.1.]

5.1.4. In accordance with the permit application and its amendments, discharge from the Salem Tip-up furnace (MA-4-P) to the roof vent fans shall not exceed the following limitations:

Particulate	0.07 lb/hr
SO_2	0.01 lb/hr
NO_x	1.93 lb/hr
CO	0.48 lb/hr
VOC	0.04 lb/hr

[45CSR13 - R13-1646, Condition A.1.]

5.1.5. In accordance with the permit application and its amendments, natural gas consumption in the Salem Tip-up furnace (MA-4-P) shall not exceed 13,800 cf/hr.
[45CSR13 - R13-1646, Condition A.2.]

5.1.6. In accordance with the permit application and its amendments, the Salem Tip-up furnace (MA-4-P) shall not process more than 20,000 lb/hr of alloy rods.
[45CSR13 - R13-1646, Condition A.3.]

5.1.7. In accordance with the permit application and its amendments, the plate anneal furnace (PM-23-P) as operated shall fire only natural gas and shall not be operated in a manner to exceed a maximum design heat input of 26.0 x 10^6 Btu/hr.
[45CSR13 - R13-1767, Condition A.1.]

5.1.8. In accordance with the permit application and its amendments, emissions to the atmosphere from the roof vent of the plate anneal furnace (PM-23-P) shall not exceed the following utilizing natural gas:

Particulates	0.075 lbm/hr
Sulfur Dioxide	0.015 lbm/hr
Nitrogen Oxide	2.5 lbm/hr
Carbon Monoxide	0.875 lbm/hr
Total Hydrocarbons	0.07 lbm/hr

[45CSR13 - R13-1767, Condition A.2.]

5.1.9. In accordance with the permit application and its amendments, the plate anneal furnace (PM-23-P) shall consume no more than 25,000 ft^3/hr of natural gas.
[45CSR13 - R13-1767, Condition A.3.]

5.1.10. In accordance with the permit application and its amendments, the plate anneal furnace (PM-23-P) shall not process more than 12,000 lb/hr of alloy plate.
[45CSR13 - R13-1767, Condition A.4.]

5.1.11. In accordance with the permit application and its amendments, the maximum emissions to the air from the two Forge furnaces F-101 and F-102 (PM-28-P and PM-29-P) are not to exceed the following hourly and annual emission rates:

Pollutant	Maximum Emission Rate for Each Furnace		Maximum Emission Rate for Two Furnaces	
	(lb/hr)	(tons/yr)[(2)]	(lb/hr)	(tons/yr)
CO	2.74	9.60	5.48	19.2
NO_x	1.88	5.26	3.76	10.52
PM_{10}	1.26	4.24	2.52	8.48
SO_2	0.225	0.79	0.45	1.58
VOC's	0.1 [(1)]	0.35	0.2	0.7

Note: [(1)] Hourly emission rate based on heating value of natural gas (1,100 Btu/ft^3)
[(2)] Annual emissions are based on an operating schedule of 8,760 hours per year.
[45CSR13 - R13-2163, Condition A.1.]

5.1.12. In accordance with the permit application and its amendments, the permitted facility shall utilize natural gas as the only fuel for Forge furnaces F-101 and F-102 (PM-28-P and PM-29-P). The consumption rate of natural gas is not to exceed 13,636 ft^3/hr, or a rolling yearly total of 119.5 MM ft^3/yr.
[45CSR13 - R13-2163, Condition A.2.]

5.1.13. In accordance with the permit application and its amendments, the total maximum heat input for each of the two Forge furnaces F-101 and F102 (PM-28-P and PM-29-P) shall not exceed 15 million Btu/hr (each of the fifteen (15) low NO_x burners for each furnace not to exceed 1.25 MM Btu/hr heat input).
[45CSR13 - R13-2163, Condition A.3.]

5.1.14. In accordance with the permit application and its amendments, sulfur content of natural gas used for fuel in the Forge furnaces F-101 and F-102 (PM-28-P and PM-29-P) is not to exceed 5 parts per million (less than ½ a grain per cubic foot of natural gas).
[45CSR13 - R13-2163, Condition A.4.]

5.2. Monitoring Requirements

5.2.1. The Furnaces listed above shall be operated and maintained in accordance with the manufacturer's recommendations and specifications and in a manner consistent with good operating practices and shall only burn natural gas as stated in Section 3.1.16. of this permit.
[45CSR§30-5.1.c.]

5.3. Recordkeeping Requirements

5.3.1. The permittee shall maintain records showing the amount of natural gas fired monthly in the Salem Tip-up furnace (MA-4-P) as required in Section 5.1.5. Such records shall be maintained by the permittee for at least three (3) years. Monthly records shall be made available to the Director or his duly authorized representative upon request. Such records shall be certified by the permittee or responsible official of the company to be true and accurate.
[45CSR13 - R13-1646, Condition B.2.]

5.3.2. For purposes of tracking compliance of the Plate anneal furnace (PM-23-P) with requirements of Sections 5.1.8. and Section 5.1.9. of this permit, monthly reports shall be filed per Appendix A of Permit R13-1767. These reports shall be filed within fifteen (15) days following the end of each month and shall record monthly and year-to-date amounts of natural gas consumed and NO_x emissions in tons. Such records shall be certified by the permittee or responsible official of the company to be true and accurate.
[45CSR13 - R13-1767, Condition B.2. and 45CSR§30-5.1.c.]

5.3.3. For the purpose of determining compliance of the Forge furnaces F-101 and F-102 (PM-28-P and PM-29-P) with the requirements of Sections 5.1.12., 5.1.13., and 5.1.14 of this permit, the facility shall maintain monthly records using the provided sample recordkeeping forms appended to Permit R13-2163 as Attachments A and B. These records shall document monthly and rolling yearly total of natural gas consumed, hours of operation, hourly natural gas consumption rate in units of SCF/hr, and sulfur content of the natural gas in ppm. All records shall be initialed by a "Responsible Official" within fifteen (15) days after the end of the calendar month using the space provided on the record forms, and then signed by a "Responsible Official" within thirty (30) days after the end of the calendar year utilizing the Certification of Data Accuracy statement which is to be copied to the reverse side of each reporting form. This information shall be maintained on-site for a period of no less than five (5) calendar years from the date of the last entry on the form, and be made available to the Director his duly authorized representative upon request. The permittee may propose to the Director a different form of record keeping from that described.
[45CSR13-R13-2163, Condition B.2.]

6.0. Hot Working Operations Requirements

Argon Oxygen Reactor Vessel (MS-1A), #4 & #5 Electric Arc Furnaces (MS-1D, MS-1B), Powder Torch (MS-2), West & East Electrode Teeming (MS-3A-P, MS-3B-P), East & West Bottom Pouring (MS-5A-P, MS-5B-P)

Looping Section 1 (BW-3-P), Looping Section 2 (BW-12-P), 23" Mill (BW-7-P), 22" Mill (BW-8-P), Cross Country Mills (BW-9-P), Scholle Saw (BW-10-P), Abrasive Cut-off Machine (BW-11-P)

Rolling Mill (PM-1&2P), Plasma Cutting Torches (PM-3-P, PM-20-P), Leveling Spot Weld (SM-12-P), Stub Welder (EX-5-P)

6.1. Limitations and Standards

6.1.1. No person shall cause, suffer, allow, or permit PM to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantities specified in this permit.

Equipment	Unit ID	Maximum Allowable PM Emission Limit (lb/hr)
Argon Oxygen Reactor	MS-1A	13.0
#4 Electric Arc Furnace	MS-1D	11.0
#5 Electric Arc Furnace	MS-1B	11.0
Powder Torch	MS-2	5.0
West Electrode Teeming Pits	MS-3A-P	15.9
East Electrode Teeming Pits	MS-3B-P	15.9
East Bottom Pouring	MS-5A-P	17.3
West Bottom Pouring	MS-5B-P	17.3
#1 Primary Mill	PM-1&2P	24.0
Plasma Torch	PM-3-P	3.0
Plasma Cutting Torch	PM-20-P	5.0
Leveling Spot Arc Weld	SM-12-P	22.0
Wire Looping Section #1	BW-3-P	3.7
Wire Looping Section #2	BW-12-P	4.1
23" Mill	BW-7-P	4.1
22" Mill	BW-8-P	6.7
Cross Country Mills	BW-9-P	2.6
Scholle Saw	BW-10-P	7.1
Abrasive Cut-off Machine	BW-11-P	7.1
Stub Welder	EX-5-P	22.6

[45CSR§7-4.1.]

6.1.2. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7. of 45CSR7.
[45CSR§7-3.1]

6.1.3. No person shall cause, suffer, allow or permit the emission into the open air from any source operation an in-stack sulfur dioxide concentration exceeding 2,000 parts per million by volume from existing source operations, except as provided in subdivisions 4.1.a through 4.1.e.
[45CSR§10-4.1. (MS-1A, MS-1B, MS-1D)]

6.1.4. In accordance with the permit application and its amendments, particulate emissions to the atmosphere from the stack (PM-20-S) venting the baghouse used to control plasma cutting torch (PM-20-P) shall not exceed 0.025 lbm/hr.
[45CSR13 - R13-1165, Specific Requirement (A)]

6.1.5. In accordance with the permit application and its amendments, plasma torch (PM-20-P) shall be operated no more than 2,820 hours per calendar year.
[45CSR13 - R13-1165, Specific Requirement (B)]

6.2. Monitoring Requirements

6.2.1. The permittee shall monitor the PM emissions by conducting visible emissions checks in accordance with Section 3.2.1.
[45CSR§30-5.1.c.]

6.2.2. The permittee shall demonstrate compliance with the sulfur dioxide emission limit in Section 6.1.3. for the Argon Oxygen Reactor (MS-1A) and the #4 and #5 Electric Arc Furnaces (MS-1B, MS-1D) by monitoring in accordance with an approved monitoring plan. The approved monitoring plan requires the permittee to identify and record the highest sulfur containing batch/heat/melt that is charged in to the electric arc furnaces on a monthly basis. The sulfur will be measured in total percent sulfur by weight, then converted to a maximum monthly concentration of sulfur dioxide emitted by the dust collector.
[45CSR§30-5.1.c.]

6.3. Recordkeeping Requirements

6.3.1. The permittee shall maintain monthly records of the operating hours of the plasma torch (PM-20-P) as required in Section 6.1.5.
[45CSR§30-5.1.c.]

6.3.2. In accordance with the approved monitoring plan, the permittee shall keep monthly records of the Highest Monthly Heat Sulfur Percentage and Equivalent maximum monthly SO_2 emissions from the baghouse in parts per million for the Argon Oxygen Reactor (MS-1A) and the #4 and #5 Electric Arc Furnaces (MS-1B, MS-1D) on the form submitted in the approved monitoring plan.
[45CSR§30-5.1.c.]

7.0. Cold Working Operations Requirements

Plate Cleaning Machine (PM-4-P), Southeast, Southcentral, & Southwest Grinders (PM-5-P, PM-25-P, PM-6-P), Northeast, Northcentral, & Northwest Grinders (PM-7-P, PM-26-P, PM-8-P), Swing Grinder (PM-27-P)

CAP Shot Blaster (SM-2-P), MKW Rolling Mill (SM-3-P), United Rolling Mill (SM-4-P), #2 CBU Grinder (SM-10-P)

Schluter Grinder (CS-1-P), Norton Grinder (CS-2-P), #1 & #2 Centro-M Grinders (CS-3-P, CS-4-P), Pedestal Grinder (MA-3-P), Crucible Clean (VA-6-P)

Receiving Station Hopper (MR-25-P), Virating Grizzly (MR-26-P), Jaw Crusher (MR-27-P), Receiving Bin (MR-28-P), Vibrating Feeder (MR-29-P)

Tube Bender Saw (CD-16-P), East Cutters (CD-17-P), West Cutters (CD-23-P), McKay Tube Red. Saw (CD-26-P), Wean Tube Red. Saw (CD-28-P), Grind Building Saw (CD-31-P)

7.1. Limitations and Standards

7.1.1. No person shall cause, suffer, allow, or permit PM to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantities specified in this permit.

Equipment	Unit ID	Maximum Allowable PM Emission Limit (lb/hr)
Plate Cleaning Machine	PM-4-P	2.99
Southeast Grinder	PM-5-P	2.99
Southcentral Grinder	PM-25-P	2.99
Southwest Grinder	PM-6-P	2.99
Northeast Grinder	PM-7-P	2.99
Northcentral Grinder	PM-26-P	2.99
Northwest Grinder	PM-8-P	2.99
Swing Grinder	PM-27-P	11.50
CAP Shot Blaster	SM-2-P	9.15
MKW Rolling Mill	SM-3-P	6.68
United Rolling Mill	SM-4-P	6.04
#2 CBU Grinder	SM-10-P	3.96
Schluter Grinder	CS-1-P	0.41
Norton Grinder	CS-2-P	0.85
#1 Centro-M Grinder	CS-3-P	0.77
#2 Centro-M Grinder	CS-4-P	0.78

Equipment	Unit ID	Maximum Allowable PM Emission Limit (lb/hr)
Pedestal Grinder	MA-3-P	0.19
Crucible Clean	VA-6-P	6.84
Receiving Station Hopper	MR-25-P	6.74
Vibrating Grizzly	MR-26-P	6.74
Jaw Crusher	MR-27-P	6.74
Receiving Bin	MR-28-P	6.74
Vibrating Feeder	MR-29-P	6.74
Tube Bender Saw	CD-16-P	0.21
East Cutters (3 Saws)	CD-17-P	0.43
West Cutters (3 Saws)	CD-23-P	0.57
McKay Tube Red. Saw	CD-26-P	0.42
Wean Tube Red. Saw	CD-28-P	0.28
Grind Building Saw	CD-31-P	0.72

[45CSR§7-4.1.]

7.1.2. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7. of 45CSR7.
[45CSR§7-3.1]

7.2. Monitoring Requirements

7.2.1. The permittee shall monitor the PM emissions by conducting visible emissions checks in accordance with Section 3.2.1.
[45CSR§30-5.1.c.]

8.0. Woodworking Operations Requirements [Woodcutting Operations (CA-1-P, CA-2-P) and Wood Saws (SC-1-P)]

8.1. Limitations and Standards

8.1.1. No person shall cause, suffer, allow, or permit PM to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantities specified in this permit.

Equipment	Unit ID	Maximum Allowable PM Emission Limit (lb/hr)
Woodcutting Operations	CA-1-P	3.0
Woodcutting Operations	CA-2-P	3.0
Wood Saws	SC-1-P	1.0

[45CSR§7-4.1.]

8.1.2. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7. of 45CSR7.
[45CSR§7-3.1]

8.2. Monitoring Requirements

8.2.1. The permittee shall monitor the PM emissions by conducting visible emissions checks in accordance with Section 3.2.1.
[45CSR§30-5.1.c.]

9.0. Process Tanks Requirements [Pickling Tanks: CAP Line Pickling (SM-1-P), CAP Kolene Rinse Tank (SM-15-P), West Pickle Tanks 12-15 (CD-1-P,CD-2-P), 9-11 (CD-3-P,CD-4-P), 8 & 9 (CD-5-P,CD-6-P), #7 (CD-7-P,CD-8-P), #5 (CD-9-P,CD-10-P), #3 (CD-11-P,CD-12-P), East Pickle House (CD-13-P,CD-14-P) and Bar and Wire Quench Tanks: (BW-4A-P, BW-4B-P)]

9.1. Limitations and Standards

9.1.1. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7. of 45CSR7.
[45CSR§7-3.1 (Pickling Tanks)]

9.1.2. Mineral acids shall not be released from any type source operation or duplicate source operation or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantities specified in this permit.

Equipment	Maximum Allowable Emission Limit
Sulfuric Acid	70 mg/dscm
Nitric Acid	140 mg/dscm
Hydrochloric Acid	420 mg/dscm

[45CSR§7-4.2. (Pickling Tanks)]

9.1.3. No person shall cause, suffer, allow or permit the emission into the open air from any source operation an in-stack sulfur dioxide concentration exceeding 2,000 parts per million by volume from existing source operations, except as provided in subdivisions 4.1.a. through 4.1.e. of 45CSR10.
[45CSR§10-4.1. (Pickling Tanks)]

9.1.4. The permittee has submitted to the Director an initial compliance certification in accordance with 45CSR§21-5.1. For sources which become subject to 45CSR§21-5 after May 31, 1993, the permittee shall submit an initial compliance certification immediately upon start-up which, at a minimum, shall include all the information outlined in 45CSR§21-5.1.a. and 5.1.b.
[45CSR§21-5.1.]

9.2. Monitoring Requirements

9.2.1. The permittee shall monitor the PM emissions by conducting visible emissions checks in accordance with Section 3.2.1.
[45CSR§30-5.1.c.]

9.2.2. The Pickling Tanks shall be operated and maintained in accordance with the manufacturer's recommendations and specifications and in a manner consistent with good operating practices. The permittee shall perform preventative maintenance in accordance with the manufacturer's recommendations and specifications.
[45CSR§30-5.1.c.]

9.3. Reporting Requirements

9.3.1. Except as provided in 45CSR§21-9.3., the owner or operator of any facility containing sources subject to 45CSR§21-5 shall, for each occurrence of excess emissions expected to last more than seven (7) days, within one (1) business day of becoming aware of such occurrence, supply the Director by letter with the following information: the name and location of the facility; the subject sources that caused the excess emissions; the time and date of first observation of the excess emissions; and the cause and expected duration of the excess

emissions. For sources subject to numerical emission limitations, the estimated rate of emissions (expressed in the units of the applicable emission limitation) and the operating data and calculations used in determining the magnitude of the excess emissions; and the proposed corrective actions and schedule to correct the conditions causing the excess emissions.
[45CSR§21-5.2. (BW-4A-P, BW-4B-P)]

10.0. Lime Storage Requirements [Lime Storage Silos (MS-9-P)]

10.1. Limitations and Standards

10.1.1. No person shall cause, suffer, allow or permit visible emissions from any storage structure associated with any manufacturing process that pursuant to 45CSR§7-5.1. is required to have a full enclosure and be equipped with a particulate matter control device.
[45CSR§7-3.7.]

10.1.2. No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.
[45CSR§7-5.1.]

10.1.3. In accordance with the information filed in Permit Application R13-137, and any amendments or revisions thereto, the Lime Storage Silos shall be equipped with a baghouse dust collector.
[45CSR13-137]

10.2. Monitoring Requirements

10.2.1. The permittee shall monitor the PM emissions by conducting visible emissions checks in accordance with Section 3.2.1.
[45CSR§30-5.1.c.]

10.3. Recordkeeping Requirements

10.3.1. The permittee shall maintain the design information on the baghouse at the facility.
[45CSR§30-5.1.c.]

11.0. Miscellaneous Equipment Requirements [V.I.M. Furnace, Forge Press, Hot Reversing Strip Mill, Coiler, Hand Held Plasma Torches, Savage Saws, Spot Grinder, #1 CBU, Hill Acme Grinder (wet process), #50 Slitter, #2 Slitter, Slit and Cut Line, Looping Section #1 and #2 Wire Coilers, #1, #3 and #4 Flying Shears, Disc Shears, Wire Coilers from #4 Flying Shears and Disc Shears, Cold Shears, Electric Spot Grind, Cold Saws, Abrasive Saws, Bar Peeler, Various Machining Operations, and Vacuum Arc Reduction Furnaces]

11.1. Limitations and Standards

11.1.1. No person shall cause, suffer, allow, or permit PM to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantities specified in this permit.

Equipment	Department	Maximum Allowable PM Emission Limit (lb/hr)
V.I.M. Furnace	V.I.M.	13.45
Forge Press	Primary Mill	32.6
Hot Reversing Strip Mill	Primary Mill	35.0
Coiler	Primary Mill	35.0
Hand Held Plasma Torches	Primary Mill	16.0
Savage Saw	Primary Mill	11.5
Savage Saw	Primary Mill	16.0
Spot Grinder	Primary Mill	16.0
#1 CBU	Strip Mill	19.0
Hill Acme Grinder	Strip Mill	7.5
#50 Slitter	Strip Mill	4.5
#2 Slitter	Strip Mill	7.5
Slit and Cut Line	Strip Mill	22.0
Looping Section #1 Wire Coiler	Bar & Wire Mill	3.7
Looping Section #2 Wire Coiler	Bar & Wire Mill	4.1
#1 Flying Shears	Bar & Wire Mill	43.6
#3 Flying Shears	Bar & Wire Mill	43.6
#4 Flying Shears	Bar & Wire Mill	43.6
Wire Coilers from #4 Flying Shears	Bar & Wire Mill	43.6
Disc Shears	Bar & Wire Mill	43.6
Wire Coilers from Disc Shears	Bar & Wire Mill	43.6
Cold Shears	Bar & Wire Mill	16.0
Electric Spot Grind	Extrusion	29.5
Cold Saws	Extrusion	9.17

Equipment	Department	Maximum Allowable PM Emission Limit (lb/hr)
Abrasive Saws	Extrusion	38.5
Bar Peeler	Extrusion	9.0
Various Machining Operations	Machine and Blacksmith Shop	62.0
Abrasive Saws		36.2
Machining Operations		75.0
#2 V.A.R.	Remelting	0.79
#3 V.A.R.	Remelting	0.79
#4 V.A.R.	Remelting	0.79
#5 V.A.R.	Remelting	0.79
#6 V.A.R.	Remelting	0.79
#7 V.A.R.	Remelting	0.79

[45CSR§7-4.1.]

11.1.2. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7. of 45CSR7.
[45CSR§7-3.1]

11.1.3. The owner or operator of a cold cleaning facility shall equip the cleaner with a cover that is easily operated with one hand, if the solvent is agitated; provide a permanent, legible, conspicuous label, summarizing the operating requirements; store waste solvent in covered containers; close the cover whenever parts are not being handled in the cleaner; drain the cleaned parts until dripping ceases; and degrease only materials that are neither porous nor absorbent.
[45CSR§§21-30.3.a.1.B., 30.3.a.4, 30.3.a.5., 30.3.a.6., 30.3.a.7., 30.3.a.9. (Cold Solvent Degreasers)]

11.2. Reporting Requirements

11.2.1. The owner or operator of any facility containing sources subject to section 30 of 45CSR21 shall comply with the requirements of 45CSR§21-5.2. regarding reports of excess emissions.
[45CSR§21-30.6.b.]

12.0. Storage Tank Requirements [United Mill Soluble Oil (22-11438), Sol. Water Tmt. South Tank Soluble Oil (22-11439), Sol. Water Tmt. North Tank (22-11417), Sol. Water Tmt. North Tank Used Oil (22-11B35), Sol. Water Tmt. South Tank Used Oil (22-11B36), East Pickle House Emulsion Cleaner (22-11221)]

12.1. Limitations and Standards

12.1.1. The owner or operator of each storage vessel specified shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept on site for the life of the source.
[45CSR16 and 40 C.F.R. § 60.116b(a) and (b). (22-11438, 22-11439, 22-11417, 22-11B35, 22-11B36, & 22-11221)]

13.0. Chrome Plating Requirements [Die Room Chrome Plater (CD-36), Cold Draw Hard Chrome Plating Tank (CD-36P)]

13.1. Limitations and Standards

13.1.1. No person shall cause, suffer, allow, or permit PM to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantities specified in this permit.

Equipment	Maximum Allowable PM Emission Limit (lb/hr)
Die Room Chrome Plater	0.19

[45CSR§7-4.1.]

13.1.2. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7. of 45CSR7.
[45CSR§7-3.1]

13.1.3. During tank operation, each owner or operator of an existing affected source shall control chromium emissions discharged to the atmosphere from that affected source by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.03 mg/dscm (1.3×10^{-5} gr/dscf).
[45CSR34 and 40 C.F.R. § 63.342(c)(1)(ii)]

13.1.4. The work practice standards of this section address operation and maintenance practices. All owners or operators subject to the standards of this section are subject to these work practice standards.

(1) (i) At all times, including periods of startup, shutdown, and malfunction, owners or operators shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the operation and maintenance plan required by Section 13.1.4.(2) of this permit.

(ii) Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan required by Section 13.1.4.(2) of this permit.

(iii) Operation and maintenance requirements established pursuant to section 112 of the Clean Air Act are enforceable independent of emissions limitations or other requirements in relevant standards.
[45CSR34 and 40 C.F.R. § 63.342(f)(1)]

(2) (i) The owner or operator of an affected source subject to the work practices of Section 13.1.4.(1) of this permit shall prepare an operation and maintenance plan to be implemented no later than the compliance date. The plan shall be incorporated by reference into the source's title V permit. The plan shall include the elements listed in 40 C.F.R. § 63.342(f)(3) (A) through (E).

(ii) If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the owner or operator shall revise the operation and maintenance plan within 45 days after such an event occurs. The revised plan shall include procedures for operating and maintaining the process equipment, add-on air pollution control device, or monitoring equipment during similar malfunction events, and a program for corrective action for such events.

(iii) If actions taken by the owner or operator during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan required by Section 13.1.4.(2)(i) of this permit, the owner or operator shall record the actions taken for that event and shall report by phone such actions

within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator.

(iv) The owner or operator shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by the Administrator for the life of the affected source or until the source is no longer subject to the provisions of 40 C.F.R. 63 Subpart N. In addition, if the operation and maintenance plan is revised, the owner or operator shall keep previous (i.e., superseded) versions of the operation and maintenance plan on record to be made available for inspection, upon request, by the Administrator for a period of 5 years after each revision to the plan.

[45CSR34 and 40 C.F.R. § 63.342(f)(3)]

13.1.5. An owner or operator of an existing hard chromium electroplating tank or tanks located at a small, hard chromium electroplating facility that increases its maximum cumulative potential rectifier capacity, or its actual cumulative rectifier capacity, such that the facility becomes a large, hard chromium electroplating facility must comply with the requirements of 40 C.F.R. § 63.342(c)(1)(i) for all hard chromium electroplating tanks at the facility no later than 1 year after the month in which monthly records required by 40 C.F.R. §§ 63.342(c)(2) and 63.346(b)(12) show that the large designation is met, or by the compliance date specified in 40 C.F.R. § 63.343(a)(1)(ii), whichever is later.

[45CSR34 and 40 C.F.R. § 63.343(a)(5)]

13.1.6. An owner or operator of an affected source subject to the requirements of 40 C.F.R. 63 Subpart N is required to conduct an initial performance test as required under 40 C.F.R. § 63.7.

[45CSR34 and 40 C.F.R. § 63.343(b)(1)]

13.2. Monitoring Requirements

13.2.1. The owner or operator of an affected source subject to the emission limitations of 40 C.F.R. 63 Subpart N shall conduct monitoring according to the type of air pollution control technique that is used to comply with the emission limitation. The monitoring required to demonstrate continuous compliance with the emission limitations is identified in this section for the air pollution control techniques expected to be used by the owners or operators of affected sources.

Packed-bed scrubber systems.

(i) During the initial performance test, the owner or operator of an affected source, or group of affected sources under common control, complying with the emission limitations in 40 C.F.R. § 63.342 through the use of a packed-bed scrubber system shall determine the outlet chromium concentration using the procedures in 40 C.F.R. § 63.344(c), and shall establish as site-specific operating parameters the pressure drop across the system and the velocity pressure at the common inlet of the control device, setting the value that corresponds to compliance with the applicable emission limitation using the procedures in 40 C.F.R. § 63.344(d) (4) and (5). An owner or operator may conduct multiple performance tests to establish a range of compliant operating parameter values. Alternatively, the owner or operator may set as the compliant value the average pressure drop and inlet velocity pressure measured over the three test runs of one performance test, and accept ±1 inch of water column from the pressure drop value and ±10 percent from the velocity pressure value as the compliant range.

(ii) On and after the date on which the initial performance test is required to be completed under 40 C.F.R. § 63.7, the owner or operator of an affected source, or group of affected sources under common control, shall monitor and record the velocity pressure at the inlet to the packed-bed system and the pressure drop across the scrubber system once each day that any affected source is operating. To be in compliance with the standards, the scrubber system shall be operated within ±10 percent of the velocity pressure value established during the initial performance test, and within ±1 inch of water column of the pressure drop value established during the initial performance test, or within the range of compliant operating parameter values established during multiple performance tests.

[45CSR34 and 40 C.F.R. § 63.343(c)(2)]

13.3. Testing Requirements

13.3.1. Performance tests shall be conducted using the test methods and procedures in sections 40 C.F.R. §§ 63.344(c)(1), 63.344(d)(2)(ii), 63.344(d)(5), 63.344(e)(2), and 63.7. Performance test results shall be documented in complete test reports that contain the information required by paragraphs (a)(1) through (a)(9) of 40 C.F.R. § 63.344. The test plan to be followed shall be made available to the Administrator prior to the testing, if requested.
[45CSR34 and 40 C.F.R. § 63.344(a)]

13.4. Recordkeeping Requirements

13.4.1. (a) The owner or operator of each affected source subject to the standards of 40 C.F.R. § 63.346 shall fulfill all recordkeeping requirements outlined in this section and in the General Provisions to 40 CFR part 63, according to the applicability of subpart A as identified in Table 1 of 40 C.F.R. 63 Subpart N.

(b) The owner or operator of an affected source subject to the provisions of 40 C.F.R. 63 Subpart N shall maintain the records listed in 40 C.F.R. § 63.346 (b) (1) through (16) for such source.

(1) Inspection records for the add-on air pollution control device, if such a device is used, and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of 40 C.F.R. § 63.342(f) and Table 1 of 40 C.F.R. § 63.342 have taken place. The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection.

(2) Records of all maintenance performed on the affected source, the add-on air pollution control device, and monitoring equipment;

(3) Records of the occurrence, duration, and cause (if known) of each malfunction of process, add-on air pollution control, and monitoring equipment;

(4) Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan;

(5) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan required by 40 C.F.R. § 63.342(f)(3);

(6) Test reports documenting results of all performance tests;

(7) All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance with the special compliance procedures of 40 C.F.R. § 63.344(e);

(8) Records of monitoring data required by 40 C.F.R. § 63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected;

(9) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the process, add-on air pollution control, or monitoring equipment;

(10) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the process, add-on air pollution control, or monitoring equipment;

(11) The total process operating time of the affected source during the reporting period;

(12) All documentation supporting the notifications and reports required by 40 C.F.R. §§ 63.9, 63.10, and 63.347.

(c) All records shall be maintained for a period of 5 years in accordance with 40 C.F.R. § 63.10(b)(1).

[45CSR34 and 40 C.F.R. § 63.346]

13.5. Reporting Requirements

13.5.1. The owner or operator of each affected source subject to the standards of 40 C.F.R. 63 Subpart N shall fulfill all reporting requirements in accordance with 40 C.F.R. § 63.347 and in the General Provisions to 40 CFR part 63, according to the applicability of subpart A as identified in Table 1 of 40 C.F.R. 63 Subpart N. These reports shall be made to the Administrator at the appropriate address as identified in 40 C.F.R. § 63.13 or to the delegated State authority.
[45CSR34 and 40 C.F.R. § 63.347(a)]

13.5.2. *Ongoing compliance status reports for major sources.* The owner or operator of an affected source that is located at a major source site shall submit a summary report to the Administrator to document the ongoing compliance status of the affected source. The report shall contain the information identified in Section 13.5.3. of this permit, and shall be submitted semiannually unless the conditions in 40 C.F.R.§ 63.347(g)(1)(i) or (ii) are met.
[45CSR34 and 40 C.F.R. § 63.347(g)]

13.5.3. *Contents of ongoing compliance status reports.* The owner or operator of an affected source for which compliance monitoring is required in accordance with 40 C.F.R. § 63.343(c) shall prepare a summary report to document the ongoing compliance status of the source. The report must contain the information listed in 40 C.F.R. § 63.347(g)(3).
[45CSR34 and 40 C.F.R. § 63.347(g)(3)]

13.5.4. When more than one monitoring device is used to comply with the continuous compliance monitoring required by 40 C.F.R. § 63.343(c), the owner or operator shall report the results as required for each monitoring device. However, when one monitoring device is used as a backup for the primary monitoring device, the owner or operator shall only report the results from the monitoring device used to meet the monitoring requirements of 40 C.F.R. 63 Subpart N. If both devices are used to meet these requirements, then the owner or operator shall report the results from each monitoring device for the relevant compliance period.
[45CSR34 and 40 C.F.R. § 63.347(g)(4)]

APPENDIX

45CSR2 & 45CSR10 Monitoring Plan

Regulation 2 – To Prevent and Control Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers:

The Huntington Plant has four indirect fired natural gas combustion sources. Two of these four sources are boilers and two are process heaters (Kolene Salt Baths). These sources only burn natural gas and are Regulation 2 - Type 'b' sources.

Process ID #	Description	MMBTU/HR	Allowable Rate
B – 1	Main Boiler	80.0	(80.0)(0.09) = 7.2 #/hr
B – 4	VIM Boiler	26.0	(26.0)(0.09) = 2.3 #/hr
CD – 32	West Pickle Salt Bath	7.2	Not Applicable
SM – 5,6,7	CAP-Line Salt Bath	2.7	Not Applicable

Regulation 2 – Applicable Requirements:

1. West Pickle Salt Bath (CD-32) and CAP-Line Salt Bath (SM-5,6,7) have a heat input of less than 10 MMBTU/HR.

- These two sources are covered under the Title V permit application for this facility.
- These two sources burn natural gas only and as a result are not required to have method 9 opacity monitoring per requirements of Regulation 2.
- Monthly gas usage and gas sulfur content records are kept for both of these sources.

1. Main Boiler (B-1) and VIM Boiler (B-4) have inputs of 80.0 MMBTU/Hr and 26.0 MMBTU/Hr respectively.

- These two sources are covered under the Title V permit application for this facility.
- Monthly gas usage and gas sulfur content records are kept for both of these sources.
- Start-up and shut-down records are kept for both of these sources.
- These two sources burn natural gas only and as a result are not required to have method 9 opacity monitoring per requirements of Regulation 2.

Regulation 10 – To Prevent and Control Air Pollution from the emission of Sulfur Oxides:

The Huntington Plant has four indirect fired natural gas combustion sources. Two of these four sources are boilers and two are process heaters (Kolene Salt Baths). These sources only burn natural gas and are Regulation 2 - Type 'b' sources.

Process ID #	Description	MMBTU/HR	Allowable Rate
B – 1	Main Boiler	80.0	(80.0)(0.09) = 7.2 #/hr
B – 4	VIM Boiler	26.0	(26.0)(0.09) = 2.3 #/hr
CD – 32	West Pickle Salt Bath	7.2	Not Applicable
SM – 5,6,7	CAP-Line Salt Bath	2.7	Not Applicable

Regulation 10 – Applicable Requirements:

1. West Pickle Salt Bath (CD-32) and CAP-Line Salt Bath (SM-5,6,7) have a heat input of less than 10 MMBTU/HR.

- These two sources are covered under the Title V permit application for this facility.
- These two sources are exempt from the provisions of Regulation 10 and 10A due to a MMBTU/Hr burner rating of less than 10MMBTU/Hr. These two sources burn natural gas only and do not burn a process gas that contains hydrogen sulfide.

1. Main Boiler (B-1) and VIM Boiler (B-4) have inputs of 80.0 MMBTU/Hr and 26.0 MMBTU/Hr respectively.

- These two sources are covered under the Title V permit application for this facility.
- These two sources are exempt from Regulation 10 and 10A due to combustion of natural gas only and do not burn a process gas that contains hydrogen sulfide. Monthly gas usage and gas sulfur content records are kept for both of these sources.
- Exempt from Regulation 10, section 8 testing, monitoring, recordkeeping and reporting requirements due to the combustion of natural gas only in both of these sources.

Manufacturing Process Sources - Regulation 10 Applicability

Direct Combustion Sources – Direct Natural Gas Fired Processes
Regulation 10 - Allowable Fuel Burning, SO_2 Stack Emission Rates

	HUNTINGTON ALLOYS – PRODUCTS OF NATURAL GAS COMBUSTION - 2000 Description	TONS PER YEAR - POTENTIAL TO EMIT - SO2 HA-SMC Emission Point #	CAPACITY GAS MMBTU/hr	S02** Allowable Lbs/Hour	PTE Sulfur Max PPM Nat. Gas	PTE SO2 Ton / Year	PTE SO2 Pound/Yr	PTE SO2 Pound/Hr
Direct Fired Sources	F-11 Reheat Fce	PM-9A	26.7	82.8	<10.0 PPM	0.053	107	0.012
	F-12 Reheat Fce	PM-9B	26.7	82.8	<10.0 PPM	0.053	107	0.012
	F-21 Forge Fce	PM-10A	8.9	27.6	<10.0 PPM	0.018	36	0.004
	F-22 Forge Fce	PM-10B	8.9	27.6	<10.0 PPM	0.018	36	0.004
	F-3 Forge Fce	PM-11	112.0	347.2	<10.0 PPM	0.224	448	0.051
	F-41 Ingot Fce	PM-12A	14.4	44.6	<10.0 PPM	0.029	58	0.007
	F-42 Ingot Fce	PM-12B	14.4	44.6	<10.0 PPM	0.029	58	0.007
	F-5 Ingot Fce	PM-13	60.0	186.0	<10.0 PPM	0.120	240	0.027
	F-6 Ingot Fce	PM-14	52.8	163.7	<10.0 PPM	0.106	211	0.024
	F-7 Ingot Fce	PM-15	52.8	163.7	<10.0 PPM	0.106	211	0.024
	F-8 Ingot Fce	PM-16	52.8	163.7	<10.0 PPM	0.106	211	0.024
	F-91 Ingot Fce	PM-17A	14.3	44.3	<10.0 PPM	0.029	57	0.007
	F-92 Ingot Fce	PM-17B	14.3	44.3	<10.0 PPM	0.029	57	0.007
	#1 CB Fce	PM-18	84.8	262.9	<10.0 PPM	0.170	339	0.039
	#2 CB Fce	PM-19	20.8	64.5	<10.0 PPM	0.042	83	0.010
	E Steckel Reheat	PM-21	19.3	59.8	<10.0 PPM	0.039	77	0.009
	W Steckel Reheat	PM-22	19.3	59.8	<10.0 PPM	0.039	77	0.009
	F-101 Forge Fce	PM-28	13.6	42.2	<10.0 PPM	0.027	54	0.006
	F-102 Forge Fce	PM-29	13.6	42.2	<10.0 PPM	0.027	54	0.006
	Tank #59 Dryer	CD-15	1.0	3.1	<10.0 PPM	0.002	4	0.000
	Drying Tank #2	CD-18	1.0	3.1	<10.0 PPM	0.002	4	0.000
	Drying Tank #3	CD-19	2.0	6.2	<10.0 PPM	0.004	8	0.001
	#2 CAF Fce	CD-20	7.0	21.7	<10.0 PPM	0.014	28	0.003
	#3 CAF Fce	CD-21	7.5	23.3	<10.0 PPM	0.015	30	0.003
	#4 CAF Fce	CD-22	6.1	18.9	<10.0 PPM	0.012	24	0.003
	#10A Fce	CD-24	3.0	9.3	<10.0 PPM	0.006	12	0.001
	Squeeze Point	CD-25	0.5	1.6	<10.0 PPM	0.001	2	0.000
	CAP Fces	SM-9	49.5	153.5	<10.0 PPM	0.099	198	0.023
	BAL Drier	SM-11	1.0	3.1	<10.0 PPM	0.002	4	0.000
	23" Mill Fce #1	BW-1A	40.0	124.0	<10.0 PPM	0.080	160	0.018
	23" Mill Fce #2	BW-1B	40.0	124.0	<10.0 PPM	0.080	160	0.018
	Walking Beam Fce	BW-2	30.0	93.0	<10.0 PPM	0.060	120	0.014
	MS E. Ladle Rht	MS-4A	2.0	6.2	<10.0 PPM	0.004	8	0.001
	MS W. Ladle Rht	MS-4B	1.0	3.1	<10.0 PPM	0.002	4	0.000
	New W. Ladle Rht	MS-	4.0	12.4	<10.0 PPM	0.008	16	0.002
	New E. Ladle Rht	MS-	4.0	12.4	<10.0 PPM	0.008	16	0.002
	AOD Vessel Rht	MS-7	10.0	30.8	<10.0 PPM	0.020	40	0.005
	Rotary Hearth	AR-1 (NO)	4.0	12.4	<10.0 PPM	0.008	16	0.002
	Tip-Up Fce	PM-24	14.0	43.4	<10.0 PPM	0.028	56	0.006
	Stress Relief Fce	VM-1	4.5	14.0	<10.0 PPM	0.009	18	0.002
	Mold Preheat	VM-2	6.0	18.6	<10.0 PPM	0.012	24	0.003
	VIM Drying Oven	VM-3	1.4	4.3	<10.0 PPM	0.003	6	0.001
	VIM Ladle Preheat	VM-4	1.8	5.6	<10.0 PPM	0.004	7	0.001
	VIM Fce Shell Htr	VM-	1.5	4.7	<10.0 PPM	0.003	6	0.001
	Rod Heat Treat	MA-4	13.8	42.8	<10.0 PPM	0.028	55	0.006
	Plate Anneal Fce.	PM-23	25.0	77.5	<10.0 PPM	0.050	100	0.011
Indirect Fired Sources	Main Boiler	B-1	80.0	248.0	<10.0 PPM	0.160	320	0.037
	VIM Boiler	B-4	26.0	80.6	<10.0 PPM	0.052	104	0.012
	WP Salt Bath	CD-32	7.2	22.3	<10.0 PPM	0.014	29	0.003
	CAP Salt Bath	SM-5,6,7	2.7	8.4	<10.0 PPM	0.005	11	0.001

** = MMBTU/HR X (NO) = Not Operational

PTE - Based upon 8760

Manufacturing Process Sources - Regulation 10 Applicability

Huntington Plant Melting Department – Electric Arc Furnaces and Argon Oxygen Decarburization Vessel Applicability Determination and Compliance Monitoring Method

- These sources are covered under the Title V permit application for this facility.

- Due to the fact that these sources have the potential to emit Sulfur dioxide in amounts that exceed 500 pounds per year, a monitoring plan, as required by regulation 10 and 10A, has been instituted for these sources. The monitoring plan will identify and record the highest sulfur containing batch/heat/melt that is charged in to the electric arc furnaces on a montly basis. The sulfur will be measured by the Huntington Plant analytical laboratory in total percent sulfur by weight. This number will then be directly converted to an estimated maximum monthly concentration of sulfur dioxide emitted from the dust collector. The chart below details the format of the monthly report.

Huntington Alloys – Huntington Plant

Regulation 10 – Sulfur Dioxide Monitoring

Electric Arc Furnace – AOD Melting Department

Month/Year: 01/01/01 – 12/31/01

Month	Highest Monthly Heat Sulfur Percentage Melt Shop EAF's (1)	Equivalent maximum monthly SO_2 Emissions as discharged from baghouse Parts per Million (2)	Maximum Allowable SO_2 Emissions as allowed by Regulation 10 Parts per Million (3)
January			2,000
February			2,000
March			2,000
April			2,000
May			2,000
June			2,000
July			2,000
August			2,000
September			2,000
October			2,000
November			2,000
December			2,000

Note: (1) This value represents the highest melt/heat sulfur content observed during this reporting month from the Electric Arc Furnaces as reported by the Huntington Plant Spectrographic Laboratory.
(2) This value represents an estimation of the parts per million of SO2 that is produced by the melting process and released from the baghouse. This value assumes that all of the sulfur within a heat is converted directly into sulfur dioxide. In actuality, the overwhelming majority of the sulfur within a heat is absorbed into the slag as CaS.
(3) Regulation 10 limit for sulfur dioxide emissions from manufacturing operations.

Huntington Plant Cold Drawing Department – West & East Pickle House – Sulfuric Acid Pickling
Applicability Determination and Compliance Monitoring Method

1. These sources are covered under the Title V permit application for this facility.

2. Stack testing of Sulfuric Acid pickling processes has shown that they do not produce sulfur dioxide air emissions as a result of operations. Sulfuric Acid Pickling produces sulfuric acid (H2SO4) mist emissions that are not covered by Regulation 10. These sources are in compliance with the WV Office of Air Quality limitations for sulfuric acid mist emissions under Regulation 7.

Manufacturing Process Sources - Regulation 10 Applicability

Huntington Plant - All other production processes not previously listed
Applicability Determination and Compliance Monitoring Method

3. These sources are covered under the Title V permit application for this facility.

4. No other sources, other than those previously listed, have the capability of producing Sulfur Dioxide air emissions at the Huntington Facility.

Regulation 10 – Sulfur Dioxide Monitoring
Electric Arc Furnace – AOD Melting Department

Quarter: 1	Year: 2001

Quarter	Highest Quarterly Heat Sulfur Percentage Melt Shop EAF's **(1)**	Equivalent maximum quarterly SO_2 Emissions as discharged from baghouse Parts per Million **(2)**	Maximum Allowable SO_2 Emissions as allowed by Regulation 10 Parts per Million **(3)**
01-01-01 to 03-31-01			2,000
04-01-01 to 06-30-01			2,000
07-01-01 to 09-30-01			2,000
10-01-01 to 12-31-01			2,000

Note: **(1)** This value represents the highest melt/heat sulfur content observed during this reporting quarter from the Electric Arc Furnaces as reported by the Huntington Plant Spectrographic Laboratory.
(2) This value represents an estimation of the parts per million of SO2 that is produced by the melting process and released from the baghouse. This value assumes that all of the sulfur within a heat is converted directly into sulfur dioxide. In actuality, the overwhelming majority of the sulfur within a heat is absorbed into the slag as CaS.
(3) Regulation 10 limit for sulfur dioxide emissions from manufacturing operations.

The CERTIFICATION OF DATA ACCURACY statement must be completed within thirty (30) days of the end of the reporting period.
This record shall be maintained onsite for a period of five (5) years from the date of certification. It shall be made available upon request to the Chief or his (her) authorized representative.

I certify that, based on information and belief formed after reasonable inquiry, the statement and information contained in this quarterly report are true and accurate.

Signature:	Vice President & General Manager	
Responsible Official	Title	Date: